JOURNAL OF COMPARATIVE PATHOLOGY

Editorial Board:

M. J. Clarkson

E. J. H. Ford

R. E. Glover

J. E. T. Jones

G. R. Smith

J. E. Smith

J. T. Stamp

E. G. White

Volume 85, January to October 1975

601
.8

Academic Press London New York San Francisco

Copyright © 1975, by Academic Press Inc. (London) Ltd.

ALL RIGHTS RESERVED

No part of this volume may be reproduced in any form, by photostat, microfilm, or any other means without written permission from the publishers.

Printed in Great Britain

J. Comp. Path. 1975. Vol. 85.

Contents of Volume 85

Vol. 85 No. 1. January 1975

Microautoradiographic Study of The Distribution of Methylmercuric ^{203} Chloride in the Mallard Duck (*Anas platyrhynchos*). By D. A. Pass .. 1

The Pathology of Subacute and Chronic Methyl Mercury Poisoning of the Mallard Duck (*Anas platyrhynchos*). By D. A. Pass, P. B. Little and L. H. Karstad 7

Pathogenesis of *Trypanosoma brucei* Infection in Sheep. I. Clinical Signs. By B. O. Ikede and G. J. Losos 23

Pathogenesis of *Trypanosoma brucei* Infection in Sheep. II. Cerebro-spinal Fluid Changes. By B. O. Ikede and G. J. Losos 33

Pathogenesis of *Trypanosoma brucei* Infection in Sheep. III. Hypophysial and other Endocrine Lesions. By B. O. Ikede and G. J. Losos 37

Experimental Polyarthritis in Rats Produced by *Mycoplasma arthritidis*. By A. Hill and G. J. R. Dagnall 45

Lipomatosis (Fat Necrosis) in Cattle and Pigs. By J. Vítovec, C. Prokš and V. Valvoda 53

The Epithelial Reaction in the Healing of Excised Cutaneous Wounds in the Dog. By E. W. Winstanley.. 61

Mixed Tumour of Salivary Gland Showing Histological Evidence of Malignancy in a Cat. By G. A. H. Wells and M. Robinson 77

Pathology of *Sarcoptes scabiei* Infection in Pigs. I. Naturally Occurring and Experimentally Induced Lesions, By B. J. Sheahan 87

Pathology of *Sarcoptes scabiei* Infection in Pigs. II. Histological, Histochemical and Ultrastructural Changes at Skin Test Sites. By B. J. Sheahan 97

Histopathology of Acute Hepatitis in the Horse. By M. Robinson, C. Gopinath and D. L. Hughes 111

The Mongolian Gerbil as a Model for Chronic Lead Toxicity. By C. D. Port, D. W. Baxter and W. R. Richter 119

Arrested Development of *Ostertagia ostertagi* and *Cooperia oncophora* Effect of Temperature at the Free-Living Third Stage. By J. F. Michel, M. B. Lancaster and C. Hong 133

Generalized Glycogen Storage Disease in Sheep. By B. W. Manktelow and W. J. Hartley 139

Fog Fever in Cattle: Cytology of the Hyperplastic Alveolar Epithelium. By R. G. Breeze, H. M. Pirie, I. E. Selman and A. Wiseman 147

Differentiation of Rough Field Strains of *Salmonella dublin* From the Part-Rough Vaccine Strain HWS 51. By J. R. Walton and G. E. Hadfield 157

Studies in Scottish Hill Sheep. I. Changes in the Susceptibility of the Breeding Ewe to *Ostertagia* spp. By J. F. S. Reid and J. Armour .. 163

VOL. 85 No. 2. APRIL 1975

The Pathogenesis of Lactate Dehydrogenase Elevating Virus in Mice. By E. Stauber, D. Burger and R. Piper 171

Crotalaria spectabilis Toxicity in Swine: Characterization of the Renal Glomerular Lesion. By J. P. M. McGrath, J. R. Duncan and J. F. Munnell 185

Rhegmatogenous Bilateral Retinal Detachment in a Poodle Dog. By E. H. Schäffer and I. H. L. Wallow 195

Blood and Plasma Parameters in Growing Pigs Given High Levels of *Hyostrongylus rubidus* Larvae. By R. N. Titchener, I. V. Herbert and A. J. Probert 203

Afebrile Augmentation of Fibrinogen and Caeruloplasmin Synthesis, and Neutrocytosis Induced by *Mycoplasma mycoides* var. *mycoides* in the Rabbit. By D. W. T. Piercy and J. B. Bingley 213

Experimental Infection of Red Grouse with Louping-Ill Virus (Flavivirus Group). 1. The Viraemia and Antibody Response. By H. W. Reid 223

Experimental Infection of Red Grouse with Louping-Ill Virus (Flavivirus Group). II. Neuropathology. By D. Buxton and H. W. Reid 231

Atypical Coloboma in the Optic Disc of a Beagle. By G. Briziarelli and D. Abrutyn 237

The Reaction of Pregnant Ewes to Inoculation with Mucosal Disease Virus of Bovine Origin. By W. A. Snowdon, I. M. Parsonson and M. L. Broun 241

Induction of Thiamine Deficiency in Sheep, with Lesions Similar to Those of Cerebrocortical Necrosis. By W. C. Evans, I. A. Evans, D. J. Humphreys, B. Lewin, W. E. J. Davies and R. F. E. Axford 253

Studies in Scottish Hill Sheep. II. Changes in the Susceptibility of the Lamb to *Ostertagia* Spp. By J. F. S. Reid and J. Armour 269

Histopathological Changes Produced by Two Enteropathogenic Strains of *Escherichia coli* in Gnotobiotic Piglets. By M. Hornich, E. Salajka, Z. Šarmanová, L. Ulmann and M. Sedláček 277

A Comparison of *Salmonella dublin* Infection in Normal and Endotoxin-Tolerant Mice. By A. W. Hill, K. G. Hibbitt and A. L. Shears .. 285

Experiments in Border Disease VII. The Disease in Goats. By R. M. Barlow, J. C. Rennie, W. A. Keir, A. C. Gardiner and J. T. Vantsis.. 291

Copper: Molybdenum Interaction. Effect of Dietary Molybdenum on the Binding of Copper to Plasma Proteins in Sheep. By B. S. W. Smith and H. Wright 299

Arrested Development of *Obeliscoides cuniculi*. The Effect of Size of Inoculum. By J. F. Michel, M. B. Lancaster and C. Hong 307

Myeloid Leucosis Associated with Sporozoan Infection in Cultured Turbot (*Scophthalmus maximus* L.) By H. W. Ferguson and R. J. Roberts .. 317

Warts in Sheep. Identification of a Papilloma Virus and Transmission of Infection to Sheep. By E. P. J. Gibbs, C. J. Smale and M. J. P. Lawman 327

Egg Output by *Trichostrongylus axei* in Sheep Given a Single Infection. By T. E. Gibson and J. W. Parfitt 335

Vol. 85 No. 3. July 1975

Experimental Acute Gastrointestinal Disease Caused by the Pyrrolizidine Alkaloid, Lasiocarpine. By P. T. Hooper.. 341

Influence of the Method of Sensitization on Some Features of Anaphylaxis in Calves. By M. M. Aitken, T. R. Deline and P. Eyre 351

Studies with Foot-And-Mouth Disease Virus in British Deer (Muntjac and Sika). Clinical Disease, Recovery of Virus and Serological Response. By E. P. J. Gibbs, K. A. J. Herniman and M. J. P. Lawman 361

Clear-Cell Thymoma and Thymic Hyperplasia in a Cat. By L. Mackay .. 367

Neurotoxicity of Organophosphates. Effects of Tri-*o*-tolyl Phosphate in Chick Ganglia Cell Cultures. By P. G. Watanabe and R. P. Sharma.. 373

A Defibrination Syndrome in Calves Caused by Histotropic Larvae of *Oesophagostomum radiatum*. By K. C. Bremner and R. Fridemanis .. 383

Histopathology of Skin Lesions in Uasin Gishu Skin Disease of Horses. By J. S. Kaminjolo, Jr. and G. Winqvist 391

Progressive Serum Protein Changes in Experimental Infections of Calves with *Trypanosoma vivax*. By M. J. Clarkson, W. J. Penhale and R. B. McKenna 397

An Ultrastructural and Histochemical Study of a Naturally Occurring Salivary Mucocele in a Cat. By J. D. Harrison and J. R. Garrett .. 411

Location and Distribution of *Trichostrongylus colubriformis* in the Small Intestine of Sheep During the Prepatent Period, and the Development of Villus Atrophy. By I. K. Barker 417

Development and Distribution of Atrophic Enteritis in the Small Intestines of Rabbits Infected with *Trichostrongylus retortaeformis*. By I. K. Barker and G. E. Ford 427

Serological and Pathogenicity Studies with Some Unclassified Porcine Adenoviruses. By J. B. Derbyshire, M. C. Clarke and A. P. Collins .. 437

Observations on a Post-Operative Septicaemia in Experimental Dogs with Particular Reference to *Pseudomonas aeruginosa*. By M. R. Cross, J. E. Cooper and J. R. Needham 445

Periarteritis in Experimental Border Disease of Sheep 1. The Occurrence and Distribution of the Lesion. By B. Zakarian, R. M. Barlow and J. C. Rennie 453

Vascular Leakage Produced in the Brains of Mice by *Clostridium welchii* Type D Toxin. By K. T. Morgan, B. G. Kelly and D. Buxton 461

Cystic Pituicytoma of the Neurohypophysis in a Siamese Cat. By F. Zaki, J. Harris and G. Budzilovich 467

Use of the Indirect Fluorescent Antibody Method for Detecting Antibodies to Infectious Bronchitis Virus in Chicken Serum. By R. C. Jones .. 473

Nature of the Glycosaminoglycanuria (Mucopolysaccharidurie) in Brachycephalic "Snorter" Dwarf Cattle. By R. E. Hurst, R. C. Cezayirli and A. E. Lorincz 481

Vol. 85 No. 4. October 1975

Serological Studies on Pigs Experimentally Infected with *Taenia solium* or *Taenia hydatigena*. By I. V. Herbert and C. Oberg 487

Experimental Staphylococcal Mastitis in the Mouse. Histological Ultrastructural and Bacteriological Changes Caused by a Virulent Strain of *Staphylococcus aureus*. By J. C. Anderson and R. L. Chandler 499

Tropical Canine Pancytopenia: Role of Aplastic Anaemia in the Pathogenesis of Severe Disease. By W. C. Buhles, Jr., D. L. Huxsoll and P. K. Hildebrandt 511

Pathogenesis of Bovine Petechial Fever. Latent Infections, Immunity and Tissue Distribution of *Cytoecetes ondiri*. By D. R. Snodgrass 523

Pathogenesis of Experimental Mastitis in the Mouse Caused by a Strain of *Staphylococcus aureus* of Low Virulence and its Modification by Endotoxin. By J. C. Anderson 531

Histopathology of the Adrenal Glands in the Fatty Liver and Kidney Syndrome of Chickens. By P. A. L. Wight 539

Experimental Production of Osteoporosis in Growing Lambs by Continuous Dosing with *Trichostrongylus colubriformis* Larvae. By A. R. Sykes, R. L. Coop and K. W. Angus 549

Phagocytosis by the Endocardial Lining Cells of the Atrium of Plaice (*Pleuronectes platessa*). By H. W. Ferguson 561

Scanning Electron Microscopy of *Eimeria tenella* Infection and Subsequent Repair in Chicken Caeca. By D. R. Witlock, H. D. Danforth and M. D. Ruff 571

Changes in Fibrinogen Levels, Platelet Counts, Clotting Times and Fibrinolytic Activity in Relation to Thrombosis in Contagious Bovine Pleuropneumonia. By L. C. Lloyd, D. W. T. Piercy and J. B. Bingley 583

Comparison of Vaccines Against Infectious Bursal Disease. By D. H. Thornton and M. Pattison 597

Distribution of Immunoglobulins in Equine Tissues by Indirect Immunofluorescence. By S. A. Khaleel, R. M. Kenney and P. Z. Allen 611

Comparative Growth Kinetic Studies on Avian Infectious Bronchitis Virus in Different Systems. By J. H. Darbyshire, J. K. A. Cook and R. W. Peters 623

Index to Volume 85 631